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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,399	09/26/2003	Tateki Jozaki	000560-00126	2719
27557	7590	06/08/2006	EXAMINER	
BLANK ROME LLP 600 NEW HAMPSHIRE AVENUE, N.W. WASHINGTON, DC 20037				CHARLES, MARCUS
			ART UNIT	PAPER NUMBER
			3682	

DATE MAILED: 06/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/670,399	JOZAKI ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Marcus Charles	3682	

-- The MAILING DATE of this communication appears in the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 26 September 2003.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-15 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 26 September 2003 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)              |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/23/03 &amp; 9-22-05</u> . | 6) <input type="checkbox"/> Other: _____.  |

## **DETAILED ACTION**

This is the first action relating to serial application number 10/670,399, filed 9-26-2003. Claims 1-15 are currently pending.

### ***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Drawings***

2. The examiner has accepted the drawing filed with this application as formal drawing.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1, 2 and 8, the intended scope of the claims are unclear and confusing because it unclear as to the meet and bounds of the correlation to be considered "impossible relation". It is also, not clear what is meant by the phrase "impossible relation".

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-15, as understood are rejected under 35 U.S.C. 103(a) as being unpatentable over (applicant's prior art) to Loffler (6,591,177) in view of Haley (4,718,308). Loffler discloses the claimed invention including comprising a primary pressure sensor (13) for detection the primary pressure, a second pressure sensor (14) for detecting a secondary pressure; an electronic control unit (ECU) (9) for determining the correlation (9) between the primary and secondary pressures. Loffler fails to disclose the hydraulic pressure controller for performing a feedback so as to allow the detected pressures to match the target pressures. Haley (4,718,308) discloses a CVT comprising a Hydraulic control system (51) between an electronic control (50) system and the pulley chambers. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the CVT of Loffler so as to include a hydraulic control system so that the electronic control sends and received the signals of the parameters of the chambers via the Hydraulic control systems and the electronic control system return a control signal to hydraulic control system to regulate the desired pressure in the chambers.

In claim 2-15, the claimed invention is inherently included in Loffler in view of Haley device because hydraulic pressure controller inherently comprise a feedback control so as to allow the detected pressure to match the target secondary pressure calculated in response to the operation status and the

electronic control inherently comprise a means to determine the condition of the transmissions ratios in any state and a calculating means to calculate the differences or variation of the ratios so as to correct any variation if the ratios.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hendriks et al. (5,431,602) disclose an ECU (12/13) for controlling the pressure in the chambers. Tsutsui (6,602,160) disclose a system for correcting the target line pressure. Seid et al. (5,527,232), Suzuki (4,890,516) disclose a CVT with a control valve and an ECU for controlling the pressures in the chambers. Kaneko (US 2002/0116113) and Kim (US 2002/0086768). JP (09-292009), JP (09-250370) and JP (08-326855) discloses a CVT with an ECU and a control valve for correcting the pressures if the chamber and for determining the conditions of the transmission ratios.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (571) 272-7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Marcus Charles  
Primary Examiner  
Art Unit 3682  
June 02, 2006